EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	721	Fourier and similarit$3 same image$1 and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:43
L2	6	L1 and multidimension$5 near space and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:46
L3	108793	"707"/("5", "6", "102", 103R, "104").ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:47
L4	2	2 and 3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:47
L5	4	(("Fourier-Mellin" or "Fourier Mellin") same vector$ and (images or (plurality near2 image)) and vector$ and metric and @ad<"20011204")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:48
L6	2	3 and 4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:49
L7	122	Fourier same similarit$3 same image$1 and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:49
L8	5	Fourier and similarit$3 and intersection same union and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:50
L9	35	((((("match descriptor" or "match descriptors") and @ad<"20011204") and stor$3 and image$1) and (ordering or order$2 or arranging or arrange$1)) and descriptor$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:50
L10	2	"5465353".pn. and (images or (plurality near2 image)) and descriptor$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:51
L11	6	("4646352" | "4696046" | "4775956" | "4961139" | "5197107" | "5267332").PN.	USPAT	OR	ON	2007/10/18 12:51

EAST Search History

L12	35	((((("match descriptor" or "match descriptors") and @ad<"20011204") and stor$3 and image$1) and (ordering or order$2 or arranging or arrange$1)) and descriptor$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:51
L13	10676	schultz.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:52
L14	121	3 and 13	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:52
L15	0	11 and 14	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:52
L16	4	(("Fourier-Mellin" or "Fourier Mellin") same vector$ and @ad<"20011204") and (images or (plurality near2 image)) and vector$ and metric	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:52
L17	14	(fourier$ or FMT) and LSH and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:53
L18	54	("match image" or "match images") and descriptor$ and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:53
L19	13	"similarity metric" and ("match descriptor" or "match descriptors" or "image descriptor" or "image descriptors") and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:53
L20	0	14 and 19	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:54
L21	53	((((("707"/$.ccls. and match$5 same vector$1) and image$1) and distance$1) and similarity same metri$4) and descriptor$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:54
L22	27	3 and ((((match$5 same vector$1) and image$1) and distance$1) and similarity same metri$4) and descriptor$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:55

EAST Search History

L23	2	"707"/$.ccls. and match$5 and distance$1 and ("match descriptor" or "match descriptors") and metric and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:55
L24	1928	union! and intercept$5 and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:55
L25	139	L24 and ("similarity metric" or "distance metric" or metric) and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/18 12:55

Terms used:
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Relevance scale

1 The theory of parsing, translation, and compiling

Alfred V. Aho, Jeffrey D. Ullman

January 1972 Book

Publisher: Prentice-Hall, Inc.

Full text available: pdf(98.28 MB) Additional Information: full citation, abstract, references, cited by, index terms

From volume 1 Preface (See Front Matter for full Preface)

This book is intended for a one or two semester course in compiling theory at the senior or graduate level. It is a theoretically oriented treatment of a practical subject. Our motivation for making it so is threefold.

(1) In an area as rapidly changing as Computer Science, sound pedagogy demands that courses emphasize ideas, rather than implementation details. It is our hope that the algorithms and concepts presen ...

2 On modeling information retrieval with probabilistic inference

S. K. M. Wong, Y. Y. Yao

January 1995 **ACM Transactions on Information Systems (TOIS)**, Volume 13 Issue 1

Publisher: ACM Press

Full text available: pdf(1.71 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This article examines and extends the logical models of information retrieval in the context of probability theory. The fundamental notions of term weights and relevance are given probabilistic interpretations. A unified framework is developed for modeling the retrieval process with probabilistic inference. This new approach provides a common conceptual and mathematical basis for many retrieval models, such as the Boolean, fuzzy set, vector space, and conventional probabilistic models. With ...

3 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

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4 Technical reports

SIGACT News Staff
January 1980 **ACM SIGACT News**, Volume 12 Issue 1
Publisher: ACM Press
Full text available: pdf(5.28 MB) Additional Information: full citation

5 Level set and PDE methods for computer graphics

David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(17.07 MB) Additional Information: full citation, abstract, citings

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

6 Computational geometry: Qualitative polyline similarity testing with applications to query-by-sketch, indexing and classification

Bart Kuijpers, Bart Moelans, Nico Van de Weghe
November 2006 **Proceedings of the 14th annual ACM international symposium on Advances in geographic information systems GIS '06**
Publisher: ACM Press
Full text available: pdf(363.37 KB) Additional Information: full citation, abstract, references, index terms

We present an algorithm for polyline (and polygon) similarity testing that is based on the double-cross formalism. To determine the degree of similarity between two polylines, the algorithm first computes their generalized polygons, that consist of almost equally long line segments and that approximate the length of the given polylines within an $varepsilon$-error margin. Next, the algorithm determines the double-cross matrices of the generalized polylines and the difference between these matric ...

Keywords: classification, double-cross calculus, indexing, polygons, polylines, qualitative calculi, query-by-sketch, similarity

7 Course 23: Geometric modeling based on polygonal meshes: Geometric modeling based on polygonal meshes

Video files associated with this course are available from the citation page

Mario Botsch, Mark Pauly, Leif Kobbelt, Pierre Alliez, Bruno Lévy, Stephan Bischoff, Christian Rössl
August 2007 **ACM SIGGRAPH 2007 courses SIGGRAPH '07**
Publisher: ACM Press
Full text available: pdf(44.53 MB) Additional Information: full citation, appendices and supplements,

abstract, references

In the last years triangle meshes have become increasingly popular and are nowadays intensively used in many different areas of computer graphics and geometry processing. In classical CAGD irregular triangle meshes developed into a valuable alternative to traditional spline surfaces, since their conceptual simplicity allows for more flexible and highly efficient processing.

8 The Quadtree and Related Hierarchical Data Structures

Hanan Samet
June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2
Publisher: ACM Press
Full text available: pdf(4.87 MB) Additional Information: full citation, references, citings, index terms

9 Privacy-preserving payload-based correlation for accurate malicious traffic detection

Janak J. Parekh, Ke Wang, Salvatore J. Stolfo
September 2006 **Proceedings of the 2006 SIGCOMM workshop on Large-scale attack defense LSAD '06**
Publisher: ACM Press
Full text available: pdf(212.47 KB) Additional Information: full citation, abstract, references, index terms

With the increased use of botnets and other techniques to obfuscate attackers' command-and-control centers, Distributed Intrusion Detection Systems (DIDS) that focus on attack source IP addresses or other header information can only portray a limited view of distributed scans and attacks. Packet payload sharing techniques hold far more promise, as they can convey exploit vectors and/or malcode used upon successful exploit of a target system, irrespective of obfuscated source addresses. However, ...

Keywords: anomaly detection, distributed intrusion detection, payload correlation, privacy preservation, signature generation

10 Course 2: Mesh parameterization: theory and practice: Mesh parameterization: theory and practice

Video files associated with this course are available from the citation page
Kai Hormann, Bruno Lévy, Alla Sheffer
August 2007 **ACM SIGGRAPH 2007 courses SIGGRAPH '07**
Publisher: ACM Press
Full text available: pdf(36.88 MB) Additional Information: full citation, appendices and supplements, abstract, references

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11 Voronoi diagrams—a survey of a fundamental geometric data structure

Franz Aurenhammer
September 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 3

Publisher: ACM Press
Full text available: pdf(5.18 MB) Additional Information: full citation, references, citings, index terms

Keywords: cell complex, clustering, combinatorial complexity, convex hull, crystal structure, divide-and-conquer, geometric data structure, growth model, higher dimensional embedding, hyperplane arrangement, k-set, motion planning, neighbor searching, object modeling, plane-sweep, proximity, randomized insertion, spanning tree, triangulation

12 A survey of methods for recovering quadrics in triangle meshes

Sylvain Petitjean
June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2
Publisher: ACM Press
Full text available: pdf(3.91 MB) Additional Information: full citation, abstract, references, citings, index terms

In a variety of practical situations such as reverse engineering of boundary representation from depth maps of scanned objects, range data analysis, model-based recognition and algebraic surface design, there is a need to recover the shape of visible surfaces of a dense 3D point set. In particular, it is desirable to identify and fit simple surfaces of known type wherever these are in reasonable agreement with the data. We are interested in the class of quadric surfaces, that is, algebraic surfa ...

Keywords: Data fitting, geometry enhancement, local geometry estimation, mesh fairing, shape recovery

13 Cryptography and data security

Dorothy Elizabeth Robling Denning
January 1982 Book
Publisher: Addison-Wesley Longman Publishing Co., Inc.
Full text available: pdf(19.47 MB) Additional Information: full citation, abstract, references, cited by, index terms

From the Preface (See Front Matter for full Preface)

Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prolific practical data processing systems in the 1980s. As we have come to rely on these systems to process and store data, we have also come to wonder about their ability to protect valuable data.

Data security is the science and study of methods of protecting data in computer and communication systems from unauthorized disclosure ...

14 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries

Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp
April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2
Publisher: ACM Press
Full text available: pdf(316.85 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article,

we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

Keywords: applications., definitions, foundations, taxonomy

15 Qualitative decision theory: from savage's axioms to nonmonotonic reasoning

Didier Dubois, Hélène Fargier, Henri Prade, Patrice Perny
July 2002 **Journal of the ACM (JACM)**, Volume 49 Issue 4
Publisher: ACM Press
Full text available: pdf(354.26 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper investigates to what extent a purely symbolic approach to decision making under uncertainty is possible, in the scope of artificial intelligence. Contrary to classical approaches to decision theory, we try to rank acts without resorting to any numerical representation of utility or uncertainty, and without using any scale on which *both* uncertainty and preference could be mapped. Our approach is a variant of Savage's where the setting is finite, and the strict preference on acts ...

Keywords: Comparative uncertainty, decision theory, nonmonotonic reasoning, possibility theory, preference relations, qualitative decision theory

16 Generalized multidimensional data mapping and query processing

Rui Zhang, Panos Kalnis, Beng Chin Ooi, Kian-Lee Tan
September 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 3
Publisher: ACM Press
Full text available: pdf(689.08 KB) Additional Information: full citation, abstract, references, index terms

Multidimensional data points can be mapped to one-dimensional space to exploit single dimensional indexing structures such as the B+-tree. In this article we present a Generalized structure for data Mapping and query Processing (GiMP), which supports extensible mapping methods and query processing. GiMP can be easily customized to behave like many competent indexing mechanisms for multi-dimensional indexing, such as the UB-Tree, the Pyramid technique, the iMinMax, and the iDistan ...

Keywords: Indexing, data mapping, efficiency

17 Research sessions: potpourri: Mining database structure; or, how to build a data quality browser

Tamraparni Dasu, Theodore Johnson, S. Muthukrishnan, Vladislav Shkapenyuk
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**
Publisher: ACM Press
Full text available: pdf(1.21 MB) Additional Information: full citation, abstract, references, citings, index terms

Data mining research typically assumes that the data to be analyzed has been identified, gathered, cleaned, and processed into a convenient form. While data mining tools greatly enhance the ability of the analyst to make data-driven discoveries, most of the time spent in performing an analysis is spent in data identification, gathering, cleaning and processing the data. Similarly, schema mapping tools have been developed to help automate the task of using legacy or federated data sources for a n ...

18 Uniform generation in spatial constraint databases and applications (Extended abstract)

David Gross, Michel de Rougemont

May 2000 **Proceedings of the nineteenth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '00**

Publisher: ACM Press

Full text available: pdf(205.43 KB) Additional Information: full citation, abstract, references, index terms

We study the efficient approximation of queries in linear constraint databases using sampling techniques. We define the notion of an almost uniform generator for a generalized relation and extend the classical generator of Dyer, Frieze and Kannan for convex sets to the union and the projection of relations. For the intersection and the difference, we give sufficient conditions for the existence of such generators. We show how such generators give relative estimations of the volume and appro ...

19 Course 13: A gentle introduction to bilateral filtering and its applications: A gentle introduction to bilateral filtering and its applications

Sylvain Paris

August 2007 **ACM SIGGRAPH 2007 courses SIGGRAPH '07**

Publisher: ACM Press

Full text available: pdf(27.35 MB) mov(100:20 MIN) Additional Information: full citation, abstract

- Image-based modeling and photo editing *Oh et al.* ACM SIGGRAPH conference (c) 2001, Association for Computing Machinery, Inc. Reprinted by permission. http://doi.acm.org/10.1145/383259.383310

- Fast bilateral filtering for the display of high-dynamic-range images *Durand and Dorsey* ACM SIGGRAPH conference (c) 2002, Association for Computing Machinery, Inc. Reprinted by permission. http://doi.acm.org/10.1145/566570.566574

- Bilateral mesh denoising *Fleishman et a ...*

20 Geographic Data Processing

George Nagy, Sharad Wagle

June 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 2

Publisher: ACM Press

Full text available: pdf(4.20 MB) Additional Information: full citation, references, citings, index terms

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January 1972 Book

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Data security is the science and study of methods of protecting data in computer and communication systems from unauthorized disclosure ...

14 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries
Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp
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Keywords: Indexing, data mapping, efficiency

17 Research sessions: potpourri: Mining database structure; or, how to build a data quality browser

Tamraparni Dasu, Theodore Johnson, S. Muthukrishnan, Vladislav Shkapenyuk
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**
Publisher: ACM Press

Full text available: pdf(1.21 MB) Additional Information: full citation, abstract, references, citings, index terms

Data mining research typically assumes that the data to be analyzed has been identified, gathered, cleaned, and processed into a convenient form. While data mining tools greatly enhance the ability of the analyst to make data-driven discoveries, most of the time spent in performing an analysis is spent in data identification, gathering, cleaning and processing the data. Similarly, schema mapping tools have been developed to help automate the task of using legacy or federated data sources for a n ...

18 Uniform generation in spatial constraint databases and applications (Extended abstract)

David Gross, Michel de Rougemont

May 2000 **Proceedings of the nineteenth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '00**

Publisher: ACM Press

Full text available: pdf(205.43 KB) Additional Information: full citation, abstract, references, index terms

We study the efficient approximation of queries in linear constraint databases using sampling techniques. We define the notion of an almost uniform generator for a generalized relation and extend the classical generator of Dyer, Frieze and Kannan for convex sets to the union and the projection of relations. For the intersection and the difference, we give sufficient conditions for the existence of such generators. We show how such generators give relative estimations of the volume and appro ...

19 Course 13: A gentle introduction to bilateral filtering and its applications: A gentle introduction to bilateral filtering and its applications

Sylvain Paris

August 2007 **ACM SIGGRAPH 2007 courses SIGGRAPH '07**

Publisher: ACM Press

Full text available: pdf(27.35 MB) mov(100:20 MIN) Additional Information: full citation, abstract

- Image-based modeling and photo editing *Oh et al.* ACM SIGGRAPH conference (c) 2001, Association for Computing Machinery, Inc. Reprinted by permission. http://doi.acm.org/10.1145/383259.383310

- Fast bilateral filtering for the display of high-dynamic-range images *Durand and Dorsey* ACM SIGGRAPH conference (c) 2002, Association for Computing Machinery, Inc. Reprinted by permission. http://doi.acm.org/10.1145/566570.566574

- Bilateral mesh denoising *Fleishman et a ...*

20 Geographic Data Processing

George Nagy, Sharad Wagle

June 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 2

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2004 Page(s):253 - 267
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3-6 April 1990 Page(s):2735 - 2738 vol.5
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Yuan, W.G.; Ling, H.F.; Lu, Z.D.; Zou, F.H.; Yu, Y.W.;
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